

Amendment to the Claims:

This listing of claims will replace all prior versions and listings of claims in the application:

Listing of Claims:

1-10. (Cancelled)

11. (Previously Presented) The pump system for parking brakes for a rail vehicle comprising:

a bi-directional pump having pump apply and pump release ports and an actuator mounted to a manifold;
a reservoir mounted to the manifold;
the manifold connecting the pump apply and pump release ports, respectively, with the reservoir;

a brake cylinder having a brake apply port and a brake release port in fluid communication with the pump apply port and pump release port, respectively, and a brake piston;

the system further including a single, common pressure relief valve configured to allow fluid flow into the reservoir when a system pressure at the pressure relief valve reaches a pre-determined level, thereby limiting actuator input force; and

wherein the pump and the reservoir are mounted directly on the manifold forming an integral unit.

12-13. (Cancelled)

14. (Original) The pump system of Claim 11, wherein the actuator is a wheel rotatably coupled to the pump.

15. (Original) The pump system of Claim 14, wherein the direction of rotation of the wheel selectively controls the direction of fluid flow from the pump.

16. (Original) The pump system of Claim 11, wherein the manifold further includes an apply check valve and a release check valve that selectively connect the pump apply and pump release ports, respectively, to the reservoir.

17. (Original) The pump system of Claim 16, wherein the apply check valve prevents fluid flow from the pump through the apply check valve to the reservoir when the pump expels fluid in an apply direction and allows fluid flow between the reservoir and the pump when the pump expels fluid in a release direction.

18. (Original) The pump system of Claim 17, wherein the release check valve prevents fluid flow from the pump through the release check valve to the reservoir when the pump expels fluid in a release direction and allows fluid flow between the reservoir and the pump when the pump expels fluid in an apply direction.

19. (Cancelled)

20. (Original) The pump system of Claim 11, wherein the pre-determined level of system pressure is equal to or less than 65 pounds.

21-24. (Cancelled)

25. (Original) A pump system for parking brakes for a rail vehicle, comprising:
at least one actuator;
a reservoir as a fluid source;
at least one bi-directional pump;
a manifold in fluid communication with the reservoir and the at least one actuator;
a plurality of valves and fluid paths internal to the manifold to allow fluid flow among the actuator, the at least one pump and the reservoir; and

wherein the reservoir and the at least one pump are mounted directly to the manifold forming an integral unit.

26. (Original) The pump system of claim 25, wherein the at least one bi-directional pump includes a rotary pump.

27. (Original) The pump system of claim 25, wherein the at least one bi-directional pump includes a linear pump.

28. (Original) The pump system of claim 27, wherein the linear pump includes a dual displacement pump.

29. (Original) The pump system of claim 28, wherein apply and release operations of the pump system occur with a single stroke of a piston in the linear pump.